

1ST AND 2ND ORDER PRECISE AND PROPERTIES INDEX

2

Equilibrium in the system urea-potassium monophosphate-water in the range of -12.9° to $+33^{\circ}$. V. A. Polozin and M. I. Shkharovskov. *J. Gen. Chem. (U.S.S.R.)* 17, 307-308(1947)(in Russian).—The ternary system was investigated by the polythermal method, in which various composites are prepared, and their f. ps. detd. by cooling until crystals appear. No composites were observed between urea and K monophosphate. Discontinuities in the poly. curve of urea indicate the existence of two modifications of urea. The ternary diagram is shown, including concns. of K monophosphate up to 23.30 wt. % and of urea up to 88.80 wt. %. Arvid J. Miller

METALLURGICAL LITERATURE CLASSIFICATION

FROM SOURCE

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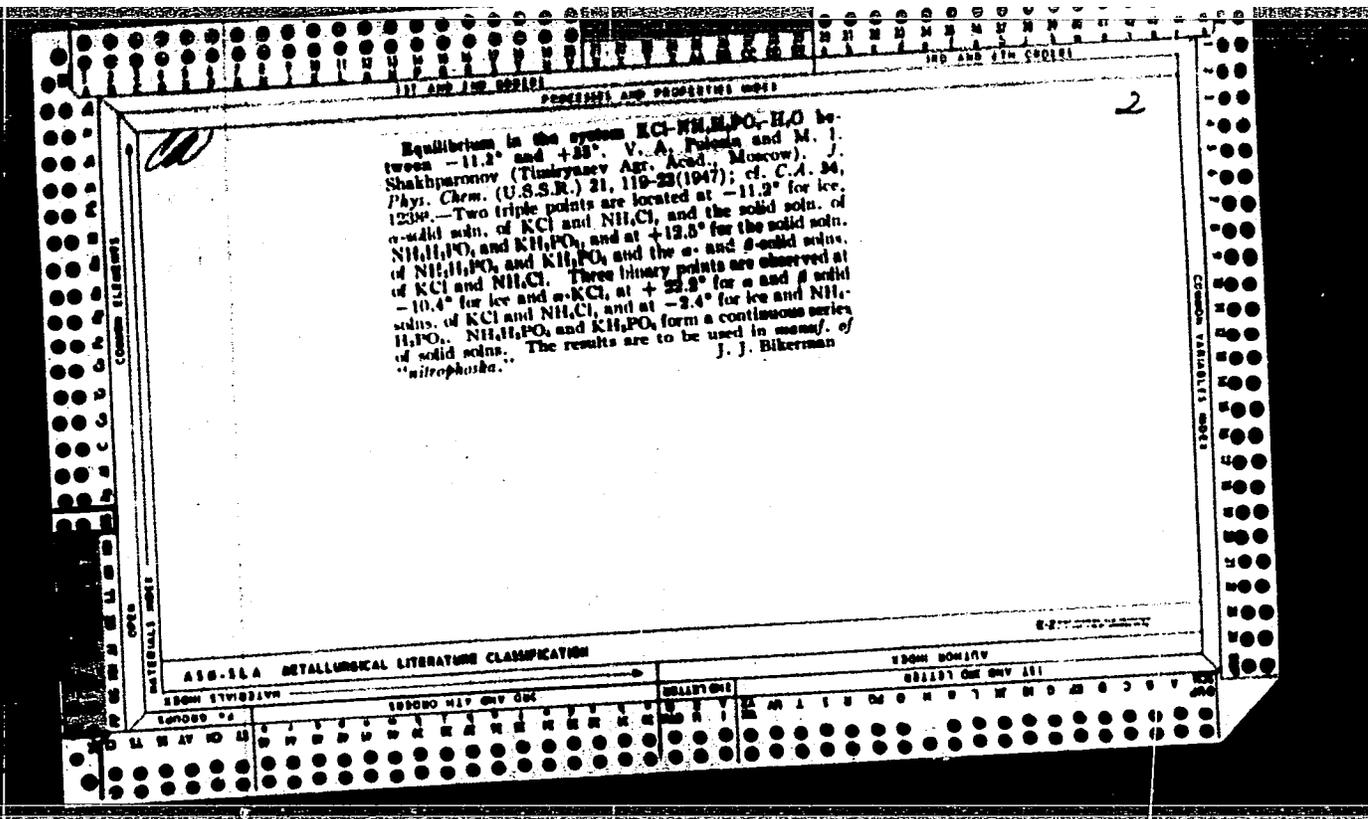
CLASSIFIED

1ST AND 4TH GROUPS
PROCESS AND POTENTIAL INDEX

2

Equilibrium in the system urea-potassium chloride-water in the range of -19.4° to $+60^{\circ}$. V. A. Fokin and R. K. Oudin. *J. Gen. Chem. (U.S.S.R.)* 17, 408-10 (1947) (in Russian); cf. preceding abstr.—The binary urea-water eutectic occurs at -10.8° and contains 2.9% urea. The only curve for urea has discontinuities at 1.1 (40.70% urea) and 20.2° (67.5% urea), which correspond to the polymorphic transitions $\alpha \rightarrow \beta$ and $\beta \rightarrow \gamma$, resp., of KCl crystallites in two cryst. modifications (cf. Fokin and Shkharov, *Dokl. Akd. Nauk*, 1957). No compounds were observed in the ternary system. The ternary diagram includes concns. of KCl up to 20.20 wt. % and of urea up to 22.25 wt. %.
 Avram I. Mikhlin

ASS-51A METALLURGICAL LITERATURE CLASSIFICATION
 1ST AND 4TH GROUPS
 1ST AND 4TH GROUPS



USSR

Solubility polytherms in the system urea-ammonium
monophosphate-water from -45.3 to $+45.0^\circ$. V. A.
Polesh and A. G. Treshchov (K. A. Timiryazev Agr. Acad.
Moscow). *Zhur. Fiz. Khim.* 27, 57-62 (1953). — See C.A.
48, 3127i. J. Rovtar Leach

POLOSIN, V. A.

Solubility polytherm of the ternary system urea-potassium nitrate-water from -13.4 to 40° . V. A. Polosin and N. A. Vasil'eva. *Doklady, Moskov. Sci'stobkhoz. Akad. im. K. A. Timiryazeva, Nauch. Konf.* 1956, No. 22, 393-97. The ternary system has one triple point at -13.4° and concn. 81.60% of $\text{CO}(\text{NH}_2)_2$, 5.50% KNO_3 and 62.60% H_2O . The cryohydrate points of binary systems KNO_3 - H_2O and $\text{CO}(\text{NH}_2)_2$ - H_2O were obtained for the first at -2.8° with concn. of KNO_3 10.8% and for the second at -11.4° and concn. of urea 32.8%. Two polymorphic transitions of urea were detected α - β at $+1.4^{\circ}$ and concn. 41.00% $\text{CO}(\text{NH}_2)_2$ and α - γ at $+24.5^{\circ}$ with concn. 54.5%. In the investigated temp. interval reciprocal reaction between components was not observed. M. Charmandarian

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MT

POLOSHIN, V. A.

Solubility polytherm in the ternary system urea-codium
 nitrate-water at -10.55 to $+40^\circ$. V. A. Polosin and
 N. N. Tarasova. *Doklady, Moskov. Sci. Akad. Im. S. P. Korotkiy, Akad. Im. A. A. Timiryazeva, Nauch. Konf.* 1956, No. 22, 398-401.
 A visual polythermic method was used for measuring soly. at
 temp. range -10.55 to $+40^\circ$. In this temp. interval, there
 takes place a chem. reaction and formation of a chem.
 compd. The complete freezing of the system occurs at
 -10.55° . The cryohydric point of urea + H_2O at concn. of
 urea 32.8% is -11.3° , which is in agreement with the
 literature data. Besides the cryohydrate point on the
 urea branch was observed the transition from one modifica-
 tion of urea to the other at concn. 51.8% and $+24^\circ$. The
 cryohydrate point of the binary system $NaNO_3 + H_2O$
 (38.0%) is at -17.5° . The hydrated compd. and poly-
 morphic modifications of $NaNO_3$ in the investigated temp.
 interval were not detected. The ternary system $CO(NH_2)_2$ -
 $NaNO_3$ - H_2O has 8 fields of crystn. representing one of ice, 3
 fields of urea (α , β , and γ modifications), one of $NaNO_3$, and
 one of the compd. The system has also 3 triple points of
 crystn.: ice-urea-compd.; ice-compd.- $NaNO_3$; and urea-
 compd.- $NaNO_3$. The two first were observed at the in-
 vestigated temp. and the last one at the higher temp.
 M. Charmandarian

3

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MT

ZAOZERSKIY, Ivan Nikolayevich, zasl. deyatel' nauki i tekhniki
doktor khim. nauk, prof.; KOTLYAROV, Rostislav
Vladimirovich; PLATONOV, Fedor Petrovich; POLOSIN,
Vasilii Alekseyevich, dots.; RYABKOV, Vasilii Aleksandrovich
[deceased]; TER-SHMAONOV, Georgiy Abramovich; FINOGENOV,
Mikhail Yur'yevich, dots.; MISHIN, V.P., nauchnyy red.;
STUKOVNIN, N.D., red.izd-va; GRIGORCHUK, L.A., tekhn. red.

[Inorganic chemistry] Neorganicheskaya khimiya. [By] I.N.
Zaozerskii i dr. Moskva, Gos.izd-vo "Vysshaya shkola," 1963.
525 p. (MIRA 16:8)

(Chemistry, Inorganic)

GRABETSKY, A.A. (Moskva); LANGNER, M.F. (Katovitsy); POLOSIN, V.S. (Moskva)

Detecting metals in alloys and minerals by the electrographic
method. Khim. v shkole 17 no.5:78-83 S-0 '62. (MIRA 15:9)
(Metals--Analysis) (Electrolysis) (Chemistry--Experiments)

KUANG, N.N.; POLOSIN, V.S.

Experiments on the synthesis, decomposition and oxidation of ammonia. *Khim.v shkole* 18 no.2:58-63 Mr-Apr '63.

(MIRA 16:4)

1. Pedagogicheskiy institut imeni V.I.Lenina, Moskva.
(Ammonia—Experiments)

KONYUKHOV, M.N. (Moskva); POLOSIN, V.S. (Moskva)

Demonstrating the movement of ions (from "Chemie in der Schule,"
no.7, 1962). Khim.v shile 18 no.2:78-80 Mr-Apr '63.

(MIRA 16:4)

(Ions--Migration and velocity)
(Chemistry--Experiments)

KONYUKHOV, M.N.; POLOSIN, V.S.

Methods of using chemical experiments during the study of the
theory of electrolytic dissociation. Khim. v. shkole 18
no.4:39-43 J1-Ag '63. (MIRA 17:1)

1. Pedagogicheskiy institut imeni V.I. Lenina, Moskva.

KROTKOV, V.V.; POLOSIN, V.S.

New variations of experiments for the study of flame. *Khim. v shkole*
18 no.5:42-48 S-0 '63. (MIRA 17:1)

KONYUKHOV, M.N.; POLOSIN, V.S.

Use of visual aids in studying the structure of matter. *Khim. v shkole*
18 no.6:34-42. N-D (MIRA 17:1)

POLOSIN, V.S.

Methods of studying the topic of Combustion. Khim. v shkole
17 no.3:28-32 My-Je '62. (MIRA 15:6)

1. Pedagogicheskiy institut imeni V.I. Lenina.
(Combustion--Study and teaching)

KONYUKHOV, M. N.; POLOSIN, V. S.

Experiments with atomic hydrogen. Khim. v shkole 17 no.6:
63-65 N-D '62. (MIRA 16:1)

(Hydrogen) (Chemistry--Experiments)

BALEZIN, S.A., prof., otv. red.; BESKOV, S.D., prof., red.; POLOSIN,
V.S., dots., red.; ZAK, A.L., tekhn. red.

[Corrosion inhibitors for metals; investigations and use] Ingi-
bitory korrozii metallov; issledovanie i primenenie. Moskva,
Izd-vo MGPI im. V.I.Lenina, 1960. 304 p., 12 p. (MIRA 15:1)

1. Moscow. Moskovskiy gosudarstvennyy pedagogicheskiy institut.
Kafedra obshchey i analiticheskoy khimii.
(Corrosion and anticorrosives)

POLOSIN, V.S.

Experiments with reversible chemical reactions. Khim. v shkole 15
no.5:62-64 S-O '60. (MIRA 13:10)

1. Pedagogicheskiy institut imeni Lenina, Moskva.
(Chemical reactions--Study and teaching)

GRABETSKIY, A.A.; POLOSIN, V.S.

Experiments on catalytic cracking and the oxidation of oil products.
Khim. v shkole 16 no.2:71-77 Mr-Apr '61. (MIRA 14:6)
(Cracking process)

POLOSIN, V.S.

"Teaching chemistry in the 7th grade" [in German] by Guenter
Wagner. Reviewed by V.S. Polosin. Khim. v shkole 16 no.5:
89 S-0 '61. (MIRA 14:9)

(Indicators and test papers)
(Wagner, Guenter)

POLOSIN, V.S.; NADIROV, N.K.

Method of studying the conditions of ammonia synthesis. Khim.
v shkole 15 no.1:62-64 Ja-F '60. (MIRA 13:5)

1. Pedagogicheskiy institut imeni Lenina, Moskva.
(Amonia) (Chemistry--Experiments)

POIOSIN, V.A., dots., kand. khim. nauk; TARASOVA, N.N., assistant, kand. khim. nauk.

Interaction of urea with sodium nitrate in water solutions [with summary in English]. Izv. TSKhA no.6:183-190 '58. (MIRA 12:1)
(Urea) (Sodium nitrate)

ALESHIN, S.N., doktor sel'skokhozyaystvennykh nauk, prof.; VIL'YAMS, V.V.,
doktor khim. nauk, prof.; ZAOZERSKIY, I.N., doktor khim. nauk, prof.;
POLOSIN, V.A., kand. khim. nauk, dots.

Chemistry departments of the Academy during the Soviet rule [with
summary in English]. Izv. TSKhA no.4:169-180 '57. (MIBA 11:1)
(Chemistry)

POLOSIN, V.A.

USSR / General Topics. Methodology, History, Scientific Institutions and Conferences, Instruction, Bibliography and Scientific Documentation. A-1

Abs Jour : Ref Zhur - Khimiya, No 5, 1958, No 13411

Author : S.N. Aleshin, V.V. Vil'yams, I.N. Zaozerskiy, V.A. Polosin

Inst : Timiryazev Academy of Farming

Title : Chairs of Chemistry at (Timiryazev) Academy (of Farming) During the Years of Soviet Rule.

Orig Pub : Izv. Timiryazevsk. s.-kh. akad., 1957, No 4, 169 - 180

Abstract : No abstract

Card : 1/1

POLOSIN V.S.

POLOSIN, V.S.; NADIROV, N.K. (Moskva)

Methodology in studying the conditions for chemical equilibrium.
Khim. v shkole 13 no.1:31-36 Ja-F '58. (MIRA 10:12)
(Chemical equilibrium--Study and teaching)

POLOSIN, V.S. (Moskva)

Demonstration of Avogardo's law. Khim.v shkole 11 no.5:53-56
S-0 '56. (MIRA 9:11)
(Molecular weights) (Gases)

POLOSIN, V.S.; NADIROV, N.K. (Moskva)

Decomposition of ammonia at various pressures. Khim. v shkole
13 no.6:41-43 N-D ' 58. (MIRA 11:12)
(Ammonia)

POLOSIN, V.S.

Study of the blast furnace process in the secondary school.
Politekh.obuch. no.11:32-35 N '57. (MIRA 10:10)
(Blast furnaces)

POLOSIN, V.S.

New method for the utilization of lime. Khim. v shkole 10 no.1:
19-21 Ja-F '55. (MIRA 8:4)
(Lime)

POLOSIN, V.S. (Moskva)

Experiments on diffusion. Khim. v shkole 11 no.4:49-51 J1 '56.
(Diffusion--Study and teaching) (MLRA 9:9)

POLOSIN, V.S. (gorod Moskva).

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Experiments with paraffin. Khim.v shkole no.6:59-60 H-D '53.

(MLRA 6:11)

(Paraffin)

POLOSIN, V.S. (g. Moskva)

School experiments on polymerization and depolymerization
reactions of organic substances. Khim. v shkole 14 no.2:
64-66 Mr-Apr '59. (MIRA 12:4)
(Polymerization)

POLOSIN, V.S. (Moscow)

Electrolysis of water. Khim. v shkole no.3:63-64 My-Je '53. (MLRA 6:7)
(Water--Electrolysis)

RUSSIN, V. S.,

Chemical Laboratories

Forming laboratory practices in chemistry. Khim. v shkole No. 2, 1952.

9. Monthly List of Russian Accessions, Library of Congress, November 1952-1953, Uncl.

POLOSIN, V.S. (Moscow).

Activated carbon in laboratory and demonstration experiments with inorganic substances. Khim.v shkole no.5:57-61 S-0 '53. (MLA 6:9)
(Chemistry--Experiments)

POLOSIN, V.S. (Moskva)

Demonstrating the synthesis of ammonia from atmospheric
nitrogen. Khim. v shkole 10 no.6:47-49 N-D '55. (MLRA 9:1)
(Ammonia) (Chemistry - Experiments)

POLOSIN, V.S. (Moskva)

Laboratory experiments in connection with the study of
hydrocarbons. Khim. v shkole 11 no.1:51-52 Ja-F '56.
(Chemistry--Experiments) (MLRA 9:2)

POLOSIN, V.S. (Moscow)

Demonstration of experiments on gas volume changes. Khim. v shkole
10 no.4:59-60 JI-Ag '55. (MIRA 8:9)
(Gases) (Chemistry--Experiments)

POLOSIN, V.S.

Causes of transference of the properties of some substances to the properties of others by chemistry students. Uch.zap. MGPI no.225:62-65 '64.

Reflection on the method of studying chemistry in students' answers. Ibid.:66-68

Materials for the comparative effectiveness of laboratory and demonstration experiments. Ibid.:69-74

Separate and joint methods of conducting laboratory experiments. Ibid.:75-78

Study of school chemistry by means of experiments. Ibid.:79-88

(Continued on card 2)

POLOSIN, V.S.....(Continued, card 2)

Instructions for conducting practical training in chemistry.
Uch.zap.MGPI no.225:95-99 '64.

Comparing the student groups who were equally successful
in their studies during research on the methods of teaching
chemistry. Ibid.:117-121

Methods using chemical experiments during the study of the
topic "D.I.Mendeleev's periodical law and the periodical
system of elements." Ibid.:156-163

Methods of studying the concepts of "gram atom" and "gram
molecule." Ibid.:191-193

Methods of studying the amphoteric state in a secondary
school chemistry course. Ibid.:194-198

(Continued on card 3)

POLOSIN, V.S.....(Continued, card 3)

Methods of studying the Avogadro law. Uch.zap.MGPI no.225:199-
203 '64.

State of school chemical experiments in Russia at the end of
the 18th and the beginning of the 19th centuries. Ibid.:298-
305. (MIRA 18:12)

KROTKOV, V.V.; POLOSIN, V.S.

Forms of relation between teacher's words and students' activities during the experiments for the reinforcement and improvement of chemical knowledge. Uch.zap.MGPI no.225:89-94 '64.

(MIRA 18:12)

KROTKOV, V.V.; POLOSIN, V.S.

Using the combined experiments and problems in reinforcing and improving students' knowledge of chemistry. Uch.zap.MGPI no.225:128-135 '64.

Demonstration experiments on the topic "Hydrogen."
Ibid.:136-139

Demonstration experiments for the reinforcement and improvement of students' knowledge of the topic "Water, Solutions" in eight-year schools. Ibid.:140-151

Experiment proving the formation of water during the neutralization reaction. Ibid.:152-155

(MIRA 18:12)

KONYUKHOV, M.N.; POLOSIN, V.S.

Experiments with atomic gases and their use in studying
covalent bonds. Uch.zap.MGPI no.225:175-180 '64.

Studying the concepts of hydrogen indicator and hydrolysis
during extracurricular work on chemistry. Ibid.,181-190
(MIRA 18:12)

GRABETSKIY, A.A.; POLOSIN, V.S.

Practical training in school chemical experiments. Uch.zap.
MGPI no.225:237-249 '64. (MIRA 18:12)

MENDELEYEV, D.I.; POLOGIN, V.S.

Methods and technique of school chemical experiments in the
"Fundamentals of chemistry" by D.I.Mendeleev. Uch.zap.MGPI
no.225:271-276 '64.

(MIRA 18:12)

POLOSIN, V.Ye.

Use of a glass-nickel alloy in the anode supporting centers increases the operational reliability of ignitrons. Elek. i tepl. tiaga 5 no.5:21 My '61. (MIRA 14:7)

1. Starshiy mashinist depo Ozherel'ye Moskovskoy dorogi.
(Electric locomotives)
(Mercury-arc rectifiers)

POLOSIN, Yu. P. Cand. Med Sci -- (diss) "On the pathology and surgery of
cystic neoplasms of the ^{Cerebrum} ~~brain~~." Rostov-on-Don, 1957. 28 pp (Rostov State
Med Inst), 150 copies (KL, 5-58, 103)

U (U) 3-66 INT(1) GW
ACC NR: AP5026787

SOURCE CODE: UR/0286/65/000/017/0072/0072

AUTHOR: Polosin, Yu. K.; Kanatov, I. I.; Akent'yev, V. S.
44,55 44,55 44,55

ORG: none

39
8

TITLE: A device for semiautomatically charting a profile of the earth's surface from topographic maps. Class 42, No. 174377

SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 17, 1965, 72

TOPIC TAGS: cartography, earth science instrumnt, electric measuring instrument, drafting instrument 12,44,55

ABSTRACT: This Author's Certificate introduces a device for semiautomatically charting a profile of the earth's surface from topographic maps. The instrument contains a mechanical profilograph, a unit for monitoring and control, and units for extraction of information. To simplify the design and to obtain information on the local terrain in digital form, machine code, or as a graph, the profilograph is made in the form of a curvometer mechanism with a roller which is connected through gearing to an electrically conductive coding disc. Brushes contacting the disc are used to convert linear motion to electrical pulses which are then counted by reversible counters with the results being transmitted to the information extraction unit.

UDC: 528.543

Card 1/2

0901 1937

ACC NR: AP5026787

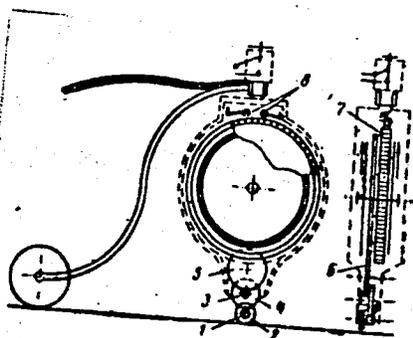


Fig. 1. 1--measurement roller; 2-6--gearing;
7--coding disc; 8--contact brushes

SUB CODE: ES,IE,EE/

SUBM DATE: 11Jul64/

ORIG REF: 000/

OTH REF: 000

nw

Card 2/2

POLOSIN, Yu.K., inzh.

Interesting information. Put' i put. khoz. no.9:39 S '58. (MIRA 11:9)
(Railroads--Gauges)

POLOSIN, Yu.K., kand.tekhn.nauk

~~Widening the gauges on curves. Vest. TSNII MPS [17] no.3:42-45 My~~
'58. (MIRA 11:6)
(Railroads--Gauges) (Railroads--Curves and turnouts)

POLOSIN, Yu.K., kand.tekhn.nauk

Construction of a passage across Templin Lake on the Berlin
Circumferential Highway. Transp.stroi. 9 no.2:55-56 7'59.

(MIRA 12:5)

(Templin--Road construction)

POLOSIN, Yu.K., kand.tekhn.nauk

Plans for reconstruction Alpine railroads. Transp.stroi. 9 no.6:
50-52 Je '59. (MIRA 12:11)

(Alps--Railroads)

POLOSIN, Yu.K., kand.tekhn.nauk

Using grades steeper than the ruling grade. Transp.stroi. 7
no.7:24 J1 '57. (MIRA 10:11)

(Railroads--Grades)

POLOSIN, Yu.K., kandidat tekhnicheskikh nauk.

On the problem of reviewing the Engineering Instructions for
Designing Railroads. *Transp. stroi.* 7 no.2:26 P '57. (MLRA 10:4)
(Railroad engineering)

POLOSIN, Yu.K., kandidat tekhnicheskikh nauk.

Norms for projecting the plan and profile of railroads. Transp
stroil. 6 no.12:24-26 D '56. (MLRA 10:3)
(Railroad engineering)

POLOSIN, Yu.P.

Clinical aspects and diagnosis of cystic tumors of the brain [with summary in English, p.63]. Vop.neirokhir. 22 no.1:23-28 Ja-F '58 (MIRA 11:3)

1. Klinika nervnykh bolezney i neyrokhirurgii Rostovskogo-na-Donu meditsinskogo instituta.
(BRAIN NEOPLASMS,
cystic tumors, clin. aspects & diag. (Rus)

GUREYEV, Andrey Aleksandrovich; TITSKAYA, B.F., vedushchiy red.; POLOSINA, A.S.,
tekhn. red.

[Automobile gasolines] Avtomobil'nye benziny. Moskva, Gos. nauchno-
tekhn. izd-vo neft. i gorno-toplivnoi lit-ry, 1961. 158 p.

(MIRA 14:7)

(Gasoline)

ГОЛОСИН*МИФИТИН, С. П.

The mechanization of work on roads and bridges; a textbook. Moskva, Izd-vo dorozhno-
tekh. lit-ry, 1950. 348 p. (50-39022)

Tsl45.F8

ANOKHIN, A.I., doktor tekhnicheskikh nauk, prof. [deceased]; BORODACHEV, I.P. kand. tekhnicheskikh nauk; BROMBERG, professor; VASIL'YEV, A.A., laureat Stalinskoy premii; PETERS, kandidat tekhnicheskikh nauk; POLOSIN-NIKITIN, S.M., kandidat tekhnicheskikh nauk; PRUSSAK, B.N., inzhener; RITOV, M.N., inzhener; FEYNBERG, G.M., inzhener; ESTRIN, M.I., inzhener; ALEKSEYEV, A.P., inzhener; BIRULYA, A.K., professor, doktor tekhnicheskikh nauk; BOLDAKOV, Ye.V., doktor tekhnicheskikh nauk; BOCHIN, V.A., laureat Stalinskoy premii, inzhener; VOLKOV, M.I., professor; GIBSHMAN, Ye.Ye., professor, doktor, tekhnicheskikh nauk; DONCHENKO, V.G., dotsent, kandidat tekhnicheskikh nauk; ZHURAVLEV, A.Ya., laureat Stalinskoy premii; IVANOV, N.N., laureat Stalinskikh premii, professor, doktor tekhnicheskikh nauk; KUVASOV, A.S., inzhener; NEKRASOV, V.K., kandidat tekhnicheskikh nauk; POLOSIN-NIKITIN, S.M., dotsent, kandidat tekhnicheskikh nauk; KHLEBNIKOV, Ye.L., laureat Stalinskoy premii, professor; ORNATSKIY, N.V., doktor tekhnicheskikh nauk, professor, redaktor; VOSKRESENSKIY, N.N., redaktor; KOVALIKHINA, N.F., tekhnicheskii redaktor

[Manual for highway engineers; road building machinery] Spravochnik inzhenera dorozhnika; dorozhno-stroitel'nye mashiny. Moskva, Izdvo dorozhno-tekhn. lit-ry. Gushosdora MVD SSSR, 1952. 698 p.

[Microfilm]

(MIRA 9:2)

(Road machinery)

PCLOSIN-NIKITIN, S. M.

Earthmoving machinery in road construction Moskva, Avtotransizdat, 1954.
43 p. populiarnaia tekhnicheskaiia bibliotekha rabochego dorozhnika 55-211420

TE223.P6

1. Earthmoving machinery.
2. Road construction.

PCLOSIN-NIKITIN, Serofim Mikhaylovich

N/5
661.2
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Mekhanizatsiya rabot na dorozhnom stroitel'stve (Mechanization of work on road construction) Moskva, Avtotransizdat, 1955.

458 p. illus., diagra., tables.

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Mekhanizatsiya Dorozhnykh i Mostovykh Rabot (Mechanization of Road and
Pavement Work) Moskva, Dorizdat, 1950.

348 p. Illus., Diagr., Tables.

"Literatura": p. 345.

AB 520521

~~POLOSIN-NIKITIN, Serafim Mikhaylovich; CHVANOV, V.G., red.; LAKHMAN,~~
F.Ye., tekhn.red.

[Using excavating machinery in road construction] Zemleroinye
mashiny na dorozhnom stroitel'stve. Izd. 2., ispr. 1 dop.
Moskva, Nauchno-tekhn.isd-vo avtotransp. lit-ry. 1958. 87 p.
(MIRA 12:2)

(Road machinery)

(Excavating machinery)

BROMBERG, Avraam Aleksandrovich, prof.; BALOVNEV, Vladlen Ivanovich, kand. tekhn. nauk; VOSHCHININ, Nikolay Petrovich, kand. tekhn. nauk; PIKOV-SKIY, Yakov Moiseyevich, kand. tekhn. nauk; POLOSIN-NIKITIN, Serafim Mikhaylovich, kand. tekhn. nauk; SHARTS, Ariy Zèl'manovich, inzh.; ANDROSOV, A.A., kand. tekhn. nauk, retsenzent; VASIL'YEV, A.A., inzh., retsenzent; IONOV, P.M., inzh., red.; TIKHANOV, A.Ya., tekhn. red.

[Road machinery; an atlas of designs] Dorozhnye mashiny; atlas konstruksii. Pod red. A.A.Bromberga. Izd.2., perer. i dop. Moskva, Gos. nauchno-tekhn. izd-vo mashinostroit. lit-ry, 1960. 153 p.

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TOPOL'NITSKAYA, L.P., red.izd-va; BODANOVA, A.P., tekhn.
red.

[Mechanizing operations in road construction] Mekhanizatsiia
rabot na dorozhnom stroitel'stve. Moskva, "Transport,"
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VIKTOROV, A.M.; IVANOV, N.N., prof., retsenzent; FOLOSIN-MIKITIN,
S.M., dots., retsenzent; BUYALOV, S.I., dots., retsenzent;
BELYAKOVA, Ye.V., red.

[Procedures in planning and working construction quarries]
Priemy proektirovaniia i razrabotki stroitel'nykh kar'erov.
Moskva, Vysshaia shkola, 1964. 154 p. (MIRA 17:9)

POLOSIN-NIKITIN, Serafim Mikhaylovich; ZUBKOVA, M.S., red.; DONSKAYA,
G.D., tekhn.red.

[Over-all mechanization of road construction] Kompleksnaia
mekhanizatsiia dorozhnykh robot. Moskva, Nauchno-tekhn.izd-vo
M-va avtomobil'nogo transp. i shosseinykh dorog RSFSR, 1962.
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Serafim Mikhaylovich, dotsent, kand.tekhn.nauk; VOSHCHININ,
Nikolay Petrovich, dotsent, kand.tekhn.nauk; BALOVNEV, Vladlen
Ivanovich, dotsent, kand.tekhn.nauk; ANDROSOV, A.A., kand.tekhn.
nauk, retsenzent; NIKITIN, A.G., inzh., red.; CHERNOVA, Z.I.,
tekhn.red.

[Road machinery and equipment; machinery and plants for making
pavements] Dorozhnye mashiny i oborudovanie; mashiny i zavody
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Pikovskogo. Moskva, Gos.nauchno-tekhn.izd-vo mashinostroit.lit-ry,
1960. 604 p. (MIRA 14:1)

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GALAKTIONOVA, Ye.N., tekhnicheskiiy redaktor.

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rabot na dorozhnom stroitel'stve. Moskva, Nauchno-tekhn.
isd-vo avtotransportnoi lit-ry, 1955. 458 p. (MLRA 8:10)
(Road construction)

POLOSIN-NIKITIN, 3 JA

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POLOSIN-NIKITIN, S.M.; IGOLEIN, V.N., redaktor; KOVALIKHINA, N.F.,
tekhnicheskii redaktor

[Earthmoving machinery in road construction] Zemleroinye mashiny
na dorozhnom stroitel'stve. Moskva, Avtotransizdat Ministerstva
avtomobil'nogo transp. i shosseinykh dorog SSSR, 1954. 43 p.
(Earthmoving machinery) (MLRA 7:11)
(Road machinery)

PCLOSIN-NIKITIN, S. M.

Mekhanizatsiia dorozhnykh i mostovykh rabot. Mechanization of road and bridge construction. Dopushcheno v kachestve ucheb. posobiia dlia dorozhno-mekhanicheskikh tekhnikumov. Moskva, Izd-vo dorozhno-tekhn. lit-ry Gushosdora MVD SSSR, 1950. 348 p.

DLC: Slavic unclass.

SO: Soviet Transportation and Communications, A Bibliography, Library of Congress, Reference Department, Washington, 1952, Unclassified.

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Road Machinery

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POLOSIN-NIKITIN, Serafim Mikhaylovich; TOVSTOLUZHSKIY, N.I., redaktor
GALAKTIONOVA, Ye.W., tekhnicheskij redaktor

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of work] Dobycha i pererabotka kamnia; mashiny i mekhanisatsiia
rabot. Moskva, Nauchno-tekhn. izd-vo avtotransp. lit-ry, 1956.
98 p. (MLRA 9:7)
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~~POLOSIN-NIKITIN~~, Serafim Mikhaylovich, dotsent, kandidat tekhnicheskikh nauk; ~~PASTRYAKOV~~, A.I., redaktor; KOGAN, F.L., tekhnicheskiiy redaktor

[Road machinery; fundamentals of the mechanization of road work]
Doroshnye mashiny; osnovy mekhanizatsii dorozhnykh rabot. Moskva,
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DEMENT'YEVA, T.A., vedushchiy red.; POLOSINA, A.S., tekhn.red.

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All-Russian conference. Mekh.i avtom.proizv. 17 no.9:53-60 S
'63. (MIRA 16:10)

NOVIKOV, Andrey Grigor'yevich; PETROV, Georgiy Grigor'yevich;

- POLOSINA, G.V., red.; IL'YUSHENKOVA, T.P., tekhn. red.

[Construction and engineering maintenance of VA-345M and FMR-III billing machines] Konstruktsiia i tekhnicheskoe obsluzhivanie fakturnykh mashin modelei VA-345M, FMR-III; uchebnoe posobie dlia shkol i kursov UPK TsSU SSSR. 3., perer. i dop. izd. Moskva, Gosstatizdat, 1963. 249 p. (MIRA 17:1)

SARIN, Mikhail Il'ich; STUL'PINAS, Mechis Iuozo; RYAZANKIN, V.N.,
red.; POLOSINA, G.V., red.; PYATAKOVA, N.D., tekhn. red.

[The PR80-2 automatic perforator-reproducing machine]Reproduktor
PR80-2 avtomaticheskii performator-reproduksionnyi; konstruktsia
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Gosstatizdat, 1962. 92 p. (MIRA 15:12)
(Punched card systems) (Electronic data processing)

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red.; PRYTKOVA, R.N., tekhn.red.

[Application of accounting-punched card machines for preparing
consolidated constructional and technological documentation]
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(MIRA 15:5)

(Machine accounting) (Punched card systems)

BUKH, Igor' Naumovich; VERIGIN, V.N.; ZAYCHIKOV, V.V.; LEONOVA, L.N.;
POLOSINA, G.V., red.; PYATAKOVA, M.D., tekhn. red.

[Electronic multiplying attachment for the T-5MU tabulator;
a transistorized device] Elektronnaia umnozhaiushchaia pri-
stavka k tabulatoru T-5mu; ustroistvo na poluprovodniko-
vykh priborakh. Moskva, Gosstatizdat, 1963. 116 p.

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(Electronic computers)

RAPPOPORT, Moisey Genrikhovich; DROZDOV, Boris Mikhaylovich; VIN'KOV,
M.P., red.; POLOSINA, G.V., red.; KAPRALOVA, A.A., tekhn. red.;
PYATAKOVA, N.D., tekhn. red.; PYATAKOVA, N.D., tekhn. red.

[EV 80-3 electronic computer]Elektronnyi vychislitel' EV 80-3;
ekspluatatsionnye svoistva i nekotorye primery primeneniia.
Moskva, Gosstatizdat, 1962. 164 p. (MIRA 16:2)
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N.M., tekhn. red.

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annotated bibliography] Novoe v sel'skokhoziaistvennoi nauke i
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POLOSKIN, A.N.

Automatic control for electroacoustic apparatus. Trudy Kom.
po akust. 8:12-16 '55. (MIRA 8:8)

1. Molotovskiy gosudarstvennyy universitet im. A.M.Gor'kogo
(Electroacoustics)

JOZEFKA, Antal; POLOSKEI, Laszlone

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1. Leather Industry Enterprise (for Jozefka).
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ПОЛОЖИТЕЛЬ / V A

PHASE I BOOK EXPLOITATION

SOV/6464

Ayzinov, Mark Moiseyevich, Aleksandr Mustafovich Bayrashevskiy, and Vasiliy Alekseyevich Polozhintsev

Radiotekhnika i radionavigatsionnyye pribory (Radio Engineering and Radio Aids to Navigation) Leningrad, "Morskoy transport", 1962. 474 p. Errata slip inserted. 9700 copies printed.

Ed.: K. F. Ditrikh; Ed. of Publishing House: Yu. V. Goryanskiy; Tech. Ed.: O. I. Kotlyakova.

PURPOSE: This book has been approved by the Ministry of the Merchant Marine (Department of Schools) as a textbook for navigation divisions in marine engineering schools of higher education, and may be useful as a handbook for navigators of the merchant marine.

COVERAGE: The book deals with the physical foundations of radio engineering and electronics. The design and operating principles of radio aids to

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Radio Engineering and Radio Aids (Cont.)

SOV/6464

navigation, aural and automatic visual radio direction finders, radio beacons, and phase-pulse navigation systems are discussed. Considerable attention is paid to the foundations of radar as well as to the design and operations of marine radar equipment. No personalities are mentioned. There are no references.

TABLE OF CONTENTS:

Introduction	3
Ch. I. Initial Considerations (Aspects)	5
1. Principles of building systems of radio communication	5
2. Linear and nonlinear systems	8
3. Frequency spectra utilized for transmitting the information	11
Ch. II. Single Oscillatory Circuit	14
4. Single oscillatory circuit subjected to sinusoidal emf	21

--Card 2/15

KRYLOV, P.I., inzh.; POLOZKOVA, V.V., ved. red.

[Safety measures in cleaning, insulating, and laying pipelines] Tekhnika bezopasnosti pri ochildke, izoliatsii i opuskanii truboprovodov. Moskva, Izd-vo "Nedra," 1964.
46 p. (MIRA 17:7)

1. Moscow. Vsesoyuznyy nauchno-issledovatel'skiy institut po stroitel'stvu magistral'nykh truboprovodov.

TITOV, V., inzh.; GEORGADZE, N., inzh.; POLTORAK, Yu., inzh.; EFENDIYEV,
F., inzh.; FREYDLIN, M., inzh.

Development of the operational and technical base for automotive
transportation. Avt.transp. 42 no. 4:22-24 Ap '64. (MIRA 17:5)

ACCESSION NR: AP4025937

8/0056/64/046/003/1048/1055

AUTHORS: Ogiyevetskiy, V. I.; Polubarinov, I. V.

TITLE: Minimal interactions of fields with spins 0, 1/2, and 1

SOURCE: Zhurnal eksperimental'noy i teoreticheskoy fiziki, v. 46, no. 3, 1964, 1048-1055

TOPIC TAGS: field interaction, minimal interaction, class A interaction, spinor particle number interaction, coupling constant, free field Lagrangian, Lagrangian invariance, parity nonconservation, nonzero mass spinor field, vector field

ABSTRACT: The results of an earlier investigation (ZhETF v. 45, 966, 1963) are generalized to the case when conservation of the number of spinor particles is not assumed, but the coupling constants remain dimensionless. The most general Lagrangian describing the interactions (defined in the earlier paper as class-A) is derived for an ar-

Cord 1/2

ACCESSION NR: AP4025937

bitrary system of fields of spin zero, $1/2$, and 1 under the new assumptions. Some new general groups or phase transformations are indicated, under which all the theories are invariant as a result of their belonging to class-A. The interactions with fields with spin $1/2$ and zero and their symmetry properties are examined. The Lagrangians of the free fields are shown to be likewise invariant relative to these transformations, under suitable choice of the masses. It is pointed out that calculations of terms with non-conservation of spinor particles can lead in general to non-conservation of parity in the interaction of spinor fields having nonzero mass with vector fields. "In conclusion we are grateful to B. N. Valuyev and L. B. Okun' for critical remarks and to M. A. Markov for interest in the work. Orig. art. has: 42 formulas.

ASSOCIATION: Ob'yedinenny'y institut yaderny*kh issledovaniy (Joint Institute of Nuclear Research)

SUBMITTED: 19Aug63

DATE ACQ: 16Apr64

ENCL: 00

SUB CODE: PH

NR REF SOV: 003

OTHER: 001

Card 2/2

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S/057/60/030/012/008/011
B019/B056

AUTHORS: Anoshkin, V. A., Golant, V. Ye., Konstantinov, B. P.,
Poloskin, B. P., and Shcherbinin, O. N.

TITLE: Microwave Studies of Plasma With "Al'fa" Research
Installation

PERIODICAL: Zhurnal tekhnicheskoy fiziki, 1960, Vol. 30, No. 12,
pp. 1447 - 1455

TEXT: The authors studied plasma in the research installation "Al'fa" with 3-cm and 8-mm waves. Fig.1 shows a block diagram of the measuring arrangement. The studies were carried out at a voltage of 10 and 15 kv at the discharge capacitors (capacity 4600 microfarads), field strengths of the longitudinal field of 180, 360, 540, and 720 oe, and pressures of the hydrogen atmosphere of $2 \cdot 10^{-3}$, 10^{-3} , and $2 \cdot 10^{-4}$ mm Hg. The results concerning the reflection and the passage of radiowaves through plasma were discussed in detail on the basis of oscillograms and diagrams. From the results obtained by the experiments described, the

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Microwave Studies of Plasma With "Al'fa"
Research Installation

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B019/B056

authors conclude that the collective motion of plasma has a complex character. The plasma effects irregular vibrations with frequencies not exceeding 10^5 cps. It first occurs near the chamber with a concentration of 10^{12} cm^{-3} , and later more in the interior. Under the conditions investigated, no continuous production of plasma over the entire cross section was observed. It was further found that near the chamber wall there exists a region, in which the electron concentration exceeds the original concentration ($4 \cdot 10^{12} \text{ cm}^{-3}$). At pressures of more than 10^{-3} mm Hg and at certain values of the magnetic longitudinal field the breakup of plasma has an ordered character. The breakup has a duration of about 0.5 to 2 microseconds. There are 10 figures and 5 Soviet references. X

Card 2/5
3

87161

Microwave Studies of Plasma With "Al'fa"
Research Installation

S/057/60/030/012/008/011
B019/B056

ASSOCIATION: Fiziko-tekhnicheskiy institut AN SSSR (Institute of
Physics and Technology of the AS USSR). Nauchno-
issledovatel'skiy institut elektrofizicheskoy apparatury
(Scientific Research Institute of Electrophysical
Apparatus)

SUBMITTED: July 15, 1960

X

Card 3/5
3

PROCESSES AND PROPERTIES INDEX

192 AND 4TH ORDERS

1

The electrochemical cleaning of molds for vulcanization of rubber. B. N. Poloskin *J. Rubber Ind.* (U. S. S. R.) 12, 1124-7(1935).-- Molds for vulcanization of rubber are usually contaminated with the rubber that sticks to the surface. A special app. was devised, consisting of an electrolytic bath tank (620 x 110 x 620 mm., thickness of the walls 3 mm.), with one lead connected to the bottom and the other to the top of the tank. The upper lead was connected with a Cu rod placed across the tank. On this rod molds were suspended in the bath by special contact hooks. On the bottom of the tank was placed an iron coil to heat the electrolyte with superheated steam. The bath was filled with a soln. of tech. NaOH 160 to 250 g. per l., the electrolyte was heated to 112° and afterwards the current was turned on. The anode was the mold and the cathode constituted the wall of the bath tank. The nascent O liberated at the anode oxidized the rubber. Then the current was reversed. The H liberated at the cathode softened and loosened the rubber. The time of the process was 4-5 min. After the treatment the molds were as clean and well polished as before use. The c. d. was 0.1-0.3 amp. per sq. cm.; the distance between electrodes in the bath was 3-4 cm. The room must have a good ventilation to remove the liberated gases.

A. Pestoff

A S B - S L A METALLURGICAL LITERATURE CLASSIFICATION

E 2